

ORU-W55AZ

MINI ACOPLADOR OTICO WDM SC-A CONEC F-TV 1GHZ ATIVO 12V



COD-Z: 17.04.025

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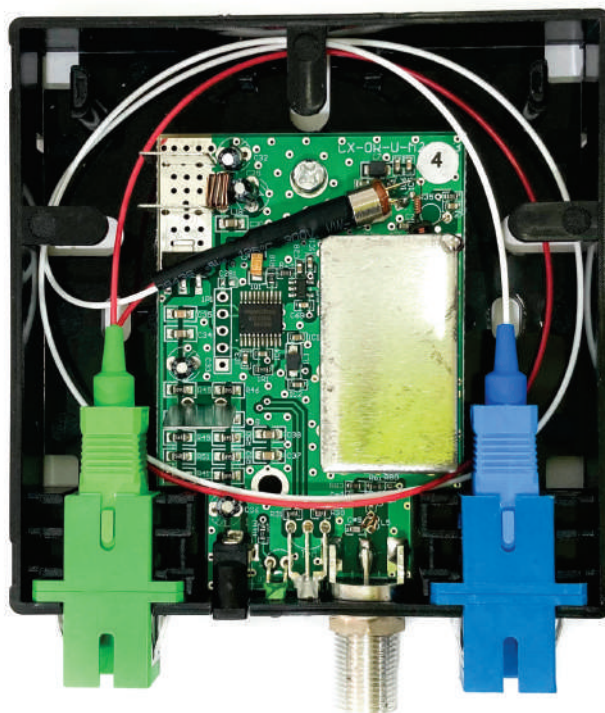
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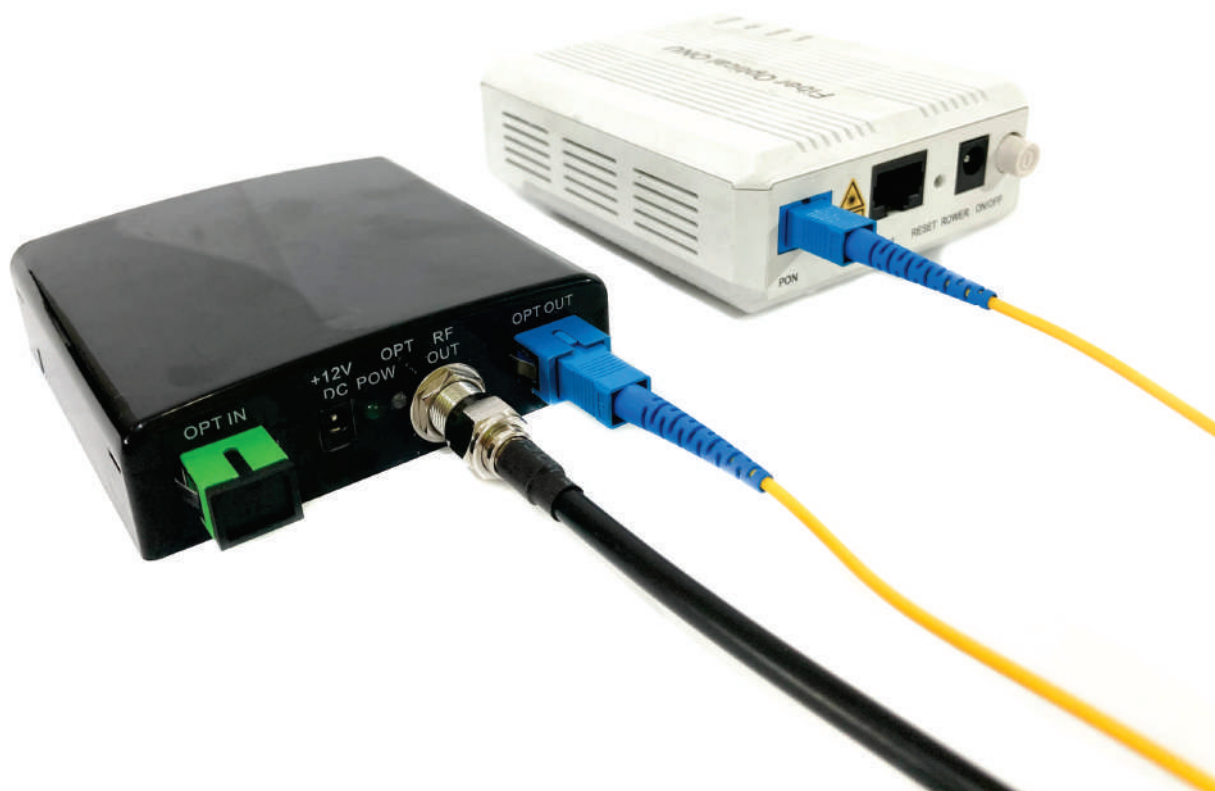
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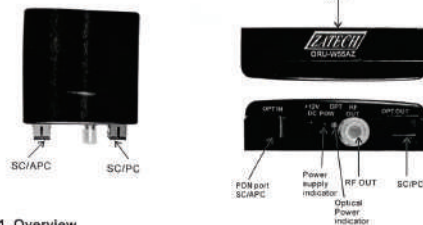
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Picture of product



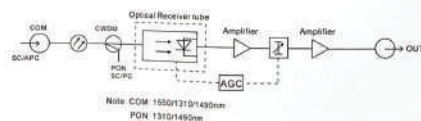
1. Overview

ORU-W55AZ is a high performance and high reliability optical receiver. It is adopted optical detectors of a wide dynamic range, realizing automatic control (AGC) function of the RF output level of optical power input signals in a wide dynamic range as $-10\text{dBm} \sim +2\text{dBm}$ in circuit.

2. Features

- Operation bandwidth is 47~1000MHz.
- One-way low noise RF signal output, it is economical and practical.
- It has indicators for power supply and optical power.
- Optical auto gain control (AGC) function.
- With PON port (1310/1490nm).

3. Functional Block Diagram



4. Parameters

Optical characteristics	Unit	Performance indicator	Remark
Work wavelength	nm	1550±30	PON (SC/PC) 1310nm less -0.6dB
Optical return loss	dB	≥45	
Input optical power range	dBm	+2~-18 (1550)	Assigned by customers
Optical AGC	dBm	+2~-10	Assigned by customers
Type of fiber		Single mode (R/125μm)	
Type of fiber connector		SC/APC (OPT IN)	Assigned by customers
RF Characteristics			
Frequency range	MHz	47~1000	Assigned by customers
Return loss	dB	≥10	
Isolation flatness	dB	±1	
RF output level	dBμV	75	Input optical power is -10dBm, OMR=4%
MER	dB	≥34	Input optical power is -10dBm
BER (Before RS decoding)	dB	1x10 ⁻⁵ %	For end-to-end optical link indicators, it should be tested at least 150 error bits
Villstead voltage (10/700μs)	kV	≥5	
RF output impedance	Ω	75	
Voltage	V	12	External power adapter
		100~240	Built in switch-power supply (Only for Plastic Housing)
Power consumption	W	1.5	
Dimension	mm	86x66x24	

5. Usage and Note of Micro Optical Receiver

- Thread the pigtail of optical cable and its tightening bolt through the corresponding fiber input of the housing, as shown in the figure, and screw down the bolt. Pay attention to the sealing and waterproofing.

- Clean the input optical cable end and connector (COM is SC/APC, PON port is SC/PC) in the way instructed in the final section. Pay attention to the invisible laser in the fiber core and never look straight into the fiber core.

- The optical power indicator shows:

The optical power indicator (OPT POW) will glow when connected to a power supply. If there is no light signal input, the indicator will not light (OPT POW).

AGC range: +2~-8dBm

>+2dBm <-15dBm: When the input optical power is higher than +2dBm, and less than -15dBm, the red indicator is on.

-8~-15dBm: When the input optical power is between -8dBm and -15dBm, the yellow indicator is on.

>-8dBm <+2dBm: When the input optical power is lower than -8dBm, and less than +2dBm, the green indicator is on.

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